

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 04306215  
PUBLICATION DATE : 29-10-92

APPLICATION DATE : 03-04-91  
APPLICATION NUMBER : 03096127

APPLICANT : ASAHI CHEM IND CO LTD;

INVENTOR : MATSUZAKI KAZUHIKO;

INT.CL. : C08G 2/38

TITLE : POLYACETAL BLOCK COPOLYMER  
EXCELLENT IN LUBRICATION  
CHARACTERISTIC AND ITS  
PRODUCTION



ABSTRACT : PURPOSE: To obtain a polyacetal block copolymer improved in self lubricating characteristics by (co)polymerizing formaldehyde with trioxane and (a cyclic ether) in the presence of a specific molecular weight modifier.

CONSTITUTION: A polyacetal block copolymer is obtained by homopolymerizing formaldehyde or trioxane or copolymerizing the formaldehyde or trioxane with a cyclic ether in the presence of a compound such as polyethylene, having hydroxyl group at one terminal and containing a functional group such as hydroxyl group, carboxyl group, amino group, ester group and/or an alkoxy group in one terminal or both terminals of a polymer, composed of recurring units of methylene units expressed by the formula and having  $\geq 400$  number-average molecular weight as a molecular weight modifier. The aforementioned block copolymer is an A-B(-A) block copolymer, constructed from (A) polyoxymethylene segments and (B) polymethylene segments and having 10000-50000 number-average molecular weight.

COPYRIGHT: (C)1992,JPO&Japio